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NEWS 2 "Ask CAS" for self-help around the clock  
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NEWS 4 AUG 28 ADISCTI Reloaded and Enhanced  
NEWS 5 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes  
NEWS 6 SEP 11 CA/CAplus enhanced with more pre-1907 records  
NEWS 7 SEP 21 CA/CAplus fields enhanced with simultaneous left and right truncation  
NEWS 8 SEP 25 CA(SM)/CAplus(SM) display of CA Lexicon enhanced  
NEWS 9 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates  
NEWS 10 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine  
NEWS 11 SEP 28 CEABA-VTB classification code fields reloaded with new classification scheme  
NEWS 12 OCT 19 LOGOFF HOLD duration extended to 120 minutes  
NEWS 13 OCT 19 E-mail format enhanced  
NEWS 14 OCT 23 Option to turn off MARPAT highlighting enhancements available  
NEWS 15 OCT 23 CAS Registry Number crossover limit increased to 300,000 in multiple databases  
NEWS 16 OCT 23 The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded  
NEWS 17 OCT 30 CHEMLIST enhanced with new search and display field  
NEWS 18 NOV 03 JAPIO enhanced with IPC 8 features and functionality  
NEWS 19 NOV 10 CA/CAplus F-Term thesaurus enhanced  
NEWS 20 NOV 10 STN Express with Discover! free maintenance release Version 8.01c now available  
NEWS 21 NOV 13 CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role  
NEWS 22 NOV 20 CAS Registry Number crossover limit increased to 300,000 in additional databases  
NEWS 23 NOV 20 CA/CAplus to MARPAT accession number crossover limit increased to 50,000  
NEWS 24 NOV 20 CA/CAplus patent kind codes will be updated  
NEWS 25 DEC 01 CAS REGISTRY updated with new ambiguity codes  
  
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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STRUCTURE FILE UPDATES: 4 DEC 2006 HIGHEST RN 914768-89-1  
DICTIONARY FILE UPDATES: 4 DEC 2006 HIGHEST RN 914768-89-1

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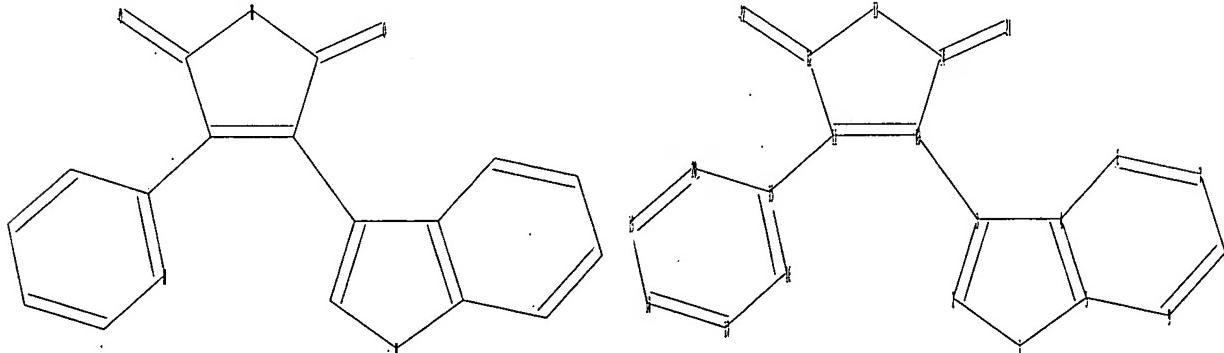
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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> Uploading C:\Program Files\Stnexp\Queries\10542175\Struc 3.str



chain nodes :

10542175a.trn

Page 3

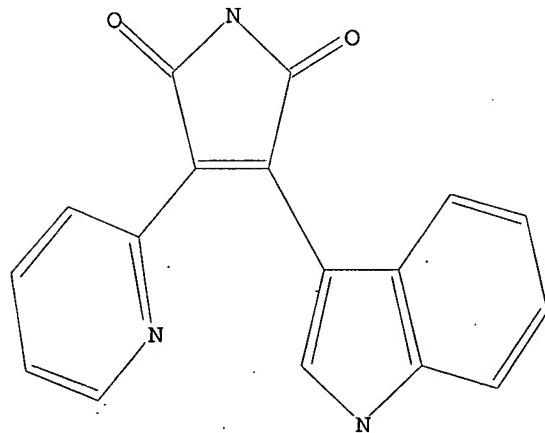
21 22  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20  
chain bonds :  
3-10 11-15 12-22 14-21  
ring bonds :  
1-2 1-5 2-3 3-4 4-5 4-6 5-9 6-7 7-8 8-9 10-11 10-14 11-12 12-13 13-14  
15-16 15-20 16-17 17-18 18-19 19-20  
exact/norm bonds :  
1-2 1-5 2-3 3-4 10-11 10-14 11-12 12-13 12-22 13-14 14-21  
exact bonds :  
3-10 11-15  
normalized bonds :  
4-5 4-6 5-9 6-7 7-8 8-9 15-16 15-20 16-17 17-18 18-19 19-20

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
20:Atom 21:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

=> d  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> l1  
SAMPLE SEARCH INITIATED 09:04:24 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 97 TO ITERATE  
  
100.0% PROCESSED 97 ITERATIONS 5 ANSWERS  
SEARCH TIME: 00.00.01  
  
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

10542175a.trn

Page 4

PROJECTED ITERATIONS: 1350 TO 2530  
PROJECTED ANSWERS: 5 TO 234

L2 5 SEA SSS SAM L1

=> l1 full  
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FULL SCREEN SEARCH COMPLETED - 2095 TO ITERATE

100.0% PROCESSED 2095 ITERATIONS 76 ANSWERS  
SEARCH TIME: 00.00.01

L3 76 SEA SSS FUL L1

=> file medline caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
FULL ESTIMATED COST ENTRY SESSION  
166.94 167.15

FILE 'MEDLINE' ENTERED AT 09:04:33 ON 05 DEC 2006

FILE 'CAPLUS' ENTERED AT 09:04:33 ON 05 DEC 2006  
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=> l3  
L4 9 L3

=> dup rem 14  
PROCESSING COMPLETED FOR L4  
L5 9 DUP REM L4 (0 DUPLICATES REMOVED)

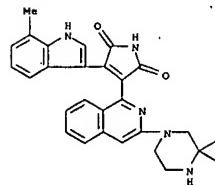
=> d ibib abs hitstr 1-9

L5 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2006:918860 CAPLUS  
 DOCUMENT NUMBER: 145:299647  
 TITLE: Composition comprising an indolylmaleimide derivative  
 INVENTOR(S): Guitard, Patrice; Wolf, Marie-Christine  
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.  
 SOURCE: PCT Int. Appl., 25pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006092255	A1	20060908	WO 2006-EPI767	20060227
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, T2, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:		GB 2005-4203	A 20050301	

OTHER SOURCE(S): MARPAT 145:299647  
 AB The application relates to solid pharmaceutical compns. suitable for oral administration comprising a water sensitive drug, preferably an indolylmaleimide derivative, process for their production and use of the pharmaceutical compns. For example, tablets were prepared containing 3-(1H-indol-3-yl)-4-[2-(4-methylpiperazine-1-yl)quinazolin-4-yl]pyrrole-2,5-dione acetate salt 250 mg, lactose spray dried 200 mg, cellulose microcryst. 200 mg, hydroxypropyl Me cellulose 12.5 mg, Sta-RX 1500 40 mg, colloidal silicon dioxide 2.5 mg, and magnesium stearate 5 mg.  
 IT 611234-91-4  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (pharmaceutical composition comprising an indolylmaleimide derivative)  
 RN 611234-91-4 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
 3-[3-(4,7-diazaspiro[2.5]oct-7-yl)-1-isoquinolinyl]-  
 4-(7-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

L5 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

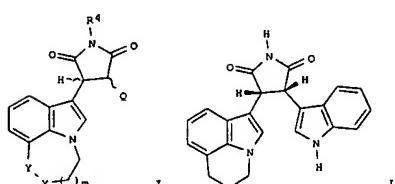


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2006:817890 CAPLUS  
 DOCUMENT NUMBER: 145:230524  
 TITLE: Preparation of maleimide derivatives, pharmaceutical compositions and methods for treatment of cancer  
 INVENTOR(S): Li, Chiang J.; Ashwell, Mark Antony; Hill, Jason;  
Mousa, Magdi M.; Munshi, Nuru  
 PATENT ASSIGNEE(S): Arquile, Inc., USA  
 SOURCE: PCT Int. Appl., 133pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

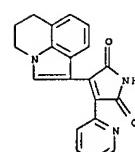
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WO 2006086484	A1	20060817	WO 2006-US4456	20060209
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US 2006223760		A1	20061005	US 2006-350335
PRIORITY APPLN. INFO.:			US 2005-650951P	P 20050209

OTHER SOURCE(S): MARPAT 145:230524  
 GI



L5 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 m = 1 or 2, and their pharmaceutically acceptable salts, are prepd. and disclosed as antitumor agents. Thus, e.g., II was prepd. by cyclocondensation of 2-(5,6-dihydro-4H-pyrrole[3,2,1-ij]quinolin-1-yl)-2-oxoethanoic acid Me ester (prepn. given) with indole-3-acetamide followed by redn. In bioassays for antitumor activity, II was found to possess an IC50 value of 2.89 with colon cancer and 4.04 with breast cancer. The present invention also relates to pharmaceutical compns. comprising pyrroloquinolinyl-pyrrole-2,5-dione compds. and pyrroloquinolinyl-pyrrolidine-2,5-dione compds. The present invention provides methods of treating a cell proliferative disorder, such as a cancer, by administering to a subject in need thereof a therapeutically effective amt. of a pyrroloquinolinyl-pyrrole-2,5-dione compd. or pyrroloquinolinyl-pyrrolidine-2,5-dione compd. of the present invention.

IT 905854-07-1P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Préparation); USES (Uses)  
 (preparation of maleimide derivs., pharmaceutical compns. and methods for treatment of cancer)  
 RN 905854-07-1 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
 3-(5,6-dihydro-4H-pyrrole[3,2,1-ij]quinolin-1-yl)-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Title compds. I [R1-3 independently = H, halo, (un)substituted alkyl, etc.; R4 = H, alkyl, CH2R7; R5 and R6 independently = H or alkyl; R7 = aminocarboxylic acid group, peptide, OP(OH)2, OP(OH)2, O-alkyl, OP(=O)(O-alkyl)2, etc.; O = Aryl, heteroaryl, aryoxy, etc.; X = CH2, S, O, NHRR; R8 = H, (un)substituted alkyl, cycloalkyl, etc.; Y = CH2 or

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LS ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:696367 CAPLUS

DOCUMENT NUMBER: 141:225308

TITLE: Preparation of indolylmaleimides for preventing or treating disorders or diseases mediated by T lymphocytes and/or PKC or GSK-3β

INVENTOR(S): Von Matt, Peter; Wagner, Juergen

PATENT ASSIGNEE(S): Novartis AG, Switz.; Novartis Pharma GmbH

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004072062	A2	20040826	WO 2004-EPI323	20040212
WO 2004072062	A3	20041104		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, RW, BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
CA 2513613	AA	20040826	CA 2004-2513613	20040212
EP 1597250	A2	20051123	EP 2004-710393	20040212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004007512	A	20060214	BR 2004-7512	20040212
CN 1742005	A	20060301	CN 2004-80002907	20040212
JP 2006515004	T2	20060518	JP 2005-518422	20040212
US 2006058356	A1	20060316	US 2005-542175	20050714
PRIORITY APPN. INFO.:			GB 2003-3319	A 20030213
				WO 2004-EPI323 W 20040212

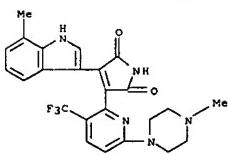
OTHER SOURCE(S): MARPAT 141:225308

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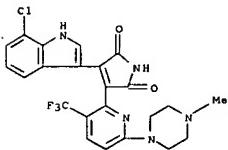
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. [I]: Ra = H, alkyl, hydroxalkyl, aminoalkyl, etc.; Rb = H, halo, alkyl, alkoxy; R = II, III (Wherein R1, R3 = heterocyclyl, XRCY; X = a direct bond, O, S, NR11; R11 = H, alkyl); Rc = (un)substituted alkylene; Y = OH, (un)substituted NH2, etc.; R2, R4 = H, halo, alkyl, alkoxy, CF3, CN, NO2, NH2), Were prepared E.g., a multi-step synthesis of IV which showed, for example, IC50 of 5.4 nM against PKCα and IC50 of 18 nM against GSK-3β, is given. The pharmaceutical composition comprising the compound I is claimed.

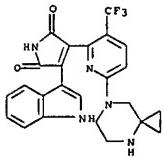
LS ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 748152-79-6 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-(7-chloro-1H-indol-3-yl)-4-[6-(4-methyl-1-piperazinyl)-3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 748152-80-9 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-[6-(4,7-diazaspiro[2.5]oct-7-yl)-3-(trifluoromethyl)-2-pyridinyl]-4-(1H-indol-3-yl)- (9CI) (CA INDEX NAME)



RN 748152-81-0 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-[6-(4,7-diazaspiro[2.5]oct-7-yl)-3-(trifluoromethyl)-2-pyridinyl]-4-(7-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

LS ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

IT 748152-77-4P 748152-78-5P 748152-79-6P

748152-80-9P 748152-81-OP 748152-82-1P

748152-83-2P 748152-84-3P 748152-85-4P

748152-86-5P 748152-87-6P 748152-88-7P

748152-89-8P 748152-90-1P 748152-91-2P

748152-92-3P 748152-93-4P 748152-94-5P

748152-95-6P 748152-96-7P 748152-97-8P

748152-98-9P 748152-99-OP 748153-00-6P

748153-01-7P 748153-02-8P 748153-03-9P

748153-04-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of indolylmaleimides for preventing or treating

disorders or diseases mediated by T lymphocytes and/or PKC or GSK-3β)

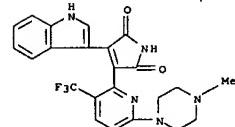
RN 748152-77-4 CAPLUS

CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[6-(4-methyl-1-piperazinyl)-3-(trifluoromethyl)-2-pyridinyl]- monoacetate (9CI) (CA INDEX NAME)

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CRN 748152-76-3

CMF C23 H20 F3 N5 O2



CM 2

CRN 64-19-7

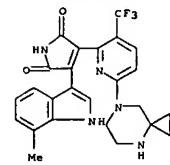
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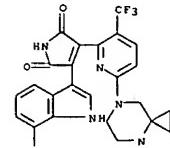
RN 748152-78-5 CAPLUS

CN 1H-Pyrrole-2,5-dione, 3-(7-methyl-1H-indol-3-yl)-4-[6-(4-methyl-1-piperazinyl)-3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

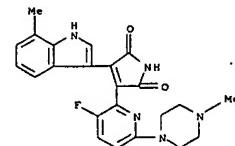
LS ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 748152-82-1 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-[6-(4,7-diazaspiro[2.5]oct-7-yl)-3-(trifluoromethyl)-2-pyridinyl]-4-(7-ethyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

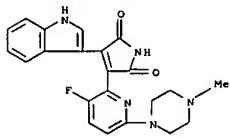


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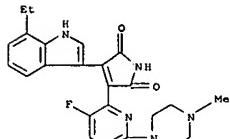


RN 748152-84-3 CAPLUS  
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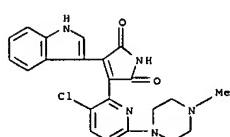
LS ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 748152-85-4 CAPLUS  
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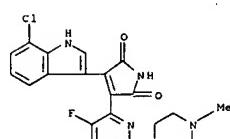


RN 748152-86-5 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
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 4-(1H-indol-3-yl)- (9CI) (CA INDEX NAME)

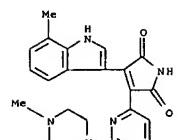


RN 748152-87-6 CAPLUS  
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 3-[3-chloro-6-(4-methyl-1-piperazinyl)-2-pyridinyl]-  
 4-(7-ethyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

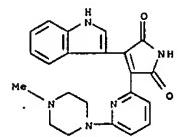
LS ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 748152-91-2 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(7-methyl-1H-indol-3-yl)-4-[6-(4-methyl-1-piperazinyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

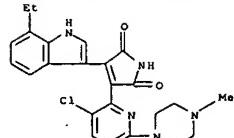


RN 748152-92-3 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[6-(4-methyl-1-piperazinyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

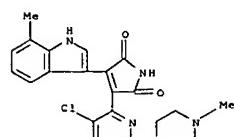


RN 748152-93-4 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
 3-(7-methyl-1H-indol-3-yl)-4-[3-methyl-6-(4-methyl-1-piperazinyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

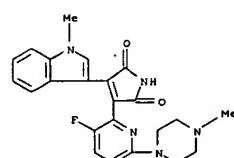
LS ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 748152-88-7 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
 3-[3-chloro-6-(4-methyl-1-piperazinyl)-2-pyridinyl]-  
 4-(7-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

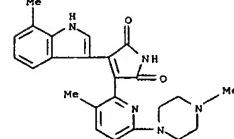


RN 748152-89-8 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
 3-[3-fluoro-6-(4-methyl-1-piperazinyl)-2-pyridinyl]-  
 4-(1-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

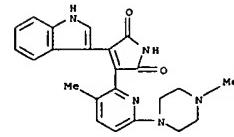


RN 748152-90-1 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
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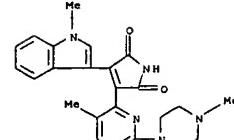
LS ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 748152-94-5 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[3-methyl-6-(4-methyl-1-piperazinyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



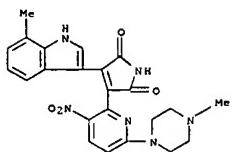
RN 748152-95-6 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
 3-(1-methyl-1H-indol-3-yl)-4-[3-methyl-6-(4-methyl-1-piperazinyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



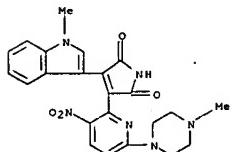
RN 748152-96-7 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(7-methyl-1H-indol-3-yl)-4-[6-(4-methyl-1-piperazinyl)-3-nitro-2-pyridinyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

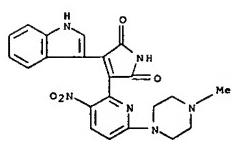
(Continued)



RN 748152-97-8 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1-methyl-1H-indol-3-yl)-4-[6-(4-methyl-1-piperazinyl)-3-nitro-2-pyridinyl]- (9CI) (CA INDEX NAME)

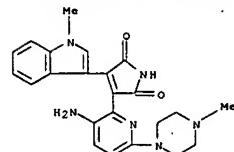


RN 748152-98-9 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[6-(4-methyl-1-piperazinyl)-3-nitro-2-pyridinyl]- (9CI) (CA INDEX NAME)

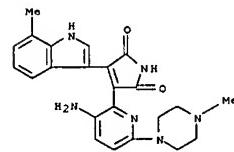


RN 748152-99-0 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
 3-[3-amino-6-(4-methyl-1-piperazinyl)-2-pyridinyl]-4-(1-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

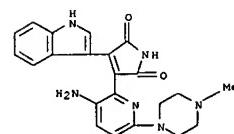
L5 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 748153-00-6 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
 3-[3-amino-6-(4-methyl-1-piperazinyl)-2-pyridinyl]-4-(7-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

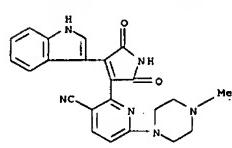


RN 748153-01-7 CAPLUS  
 CN 1H-Pyrrole-2,5-dione,  
 3-[3-amino-6-(4-methyl-1-piperazinyl)-2-pyridinyl]-4-(1H-indol-3-yl)- (9CI) (CA INDEX NAME)

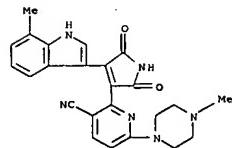


RN 748153-02-8 CAPLUS  
 CN 3-Pyridinecarbonitrile, 2-(2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrrol-3-yl)-6-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

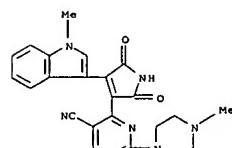
L5 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 748153-03-9 CAPLUS  
 CN 3-Pyridinecarbonitrile, 2-(2,5-dihydro-4-(7-methyl-1H-indol-3-yl)-2,5-dioxo-1H-pyrrrol-3-yl)-6-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 748153-04-0 CAPLUS  
 CN 3-Pyridinecarbonitrile, 2-(2,5-dihydro-4-(1-methyl-1H-indol-3-yl)-2,5-dioxo-1H-pyrrrol-3-yl)-6-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:796695 CAPLUS

DOCUMENT NUMBER: 139:307678

TITLE: Preparation of indolylmaleimides for treating

diseases

or disorders mediated by T lymphocytes and/or PKC

Evenou, Jean-Pierre; Von Matt, Peter; Wagner,

Juergen;

INVENTOR(S): Zenke, Gerhard

Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.

PATENT ASSIGNEE(S): PCT Int. Appl., 33 pp.

SOURCE: CODEN: PIXX02

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

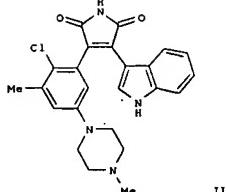
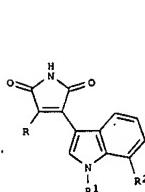
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082859	A1	20031009	WO 2003-EP3470	20030402
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MO, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SE, SG, SK, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW				
RM: AM, A2, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
CA 2477774	AA	20031009	CA 2003-247774	20030402
AU 2003224031	A1	20031013	AU 2003-224031	20030402
EP 1490355	A1	20041229	EP 2003-720413	20030402
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003008979	A	20050104	BR 2003-8979	20030402
US 2005119274	A1	20050602	US 2003-510027	20030402
CN 1639153	A	20050713	CN 2003-805343	20030402
JP 2005527563	T2	20050915	JP 2003-580325	20030402
NO 2004004613	A	20041026	NO 2004-4613	20041026
PRIORITY APPLN. INFO.:			GB 2002-7729	A 20020403
			GB 2003-3323	A 20030213
			WO 2003-EP3470	W 20030402

OTHER SOURCE(S): MARPAT 139:307678  
 GI

LS ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



AB The title compds. [I; R1 = H, Me, Et, iso-Pr; R2 = H, halo, alkoxy, alkyl;

R = substituted Ph, 1-naphthyl, 4-pyrimidinyl, 4-quinolinyl, 1-isoquinolinyl] which are useful in the treatment and/or prevention of diseases or disorders mediated by T lymphocytes and/or PKC, e.g. acute or chronic rejection of organ or tissue allo- or xenografts, graft vs. host disease, atherosclerosis, vascular occlusion due to vascular injury such as angioplasty, restenosis, obesity, syndrome X, impaired glucose tolerance, polycystic ovary syndrome, hypertension, heart failure.

chronic

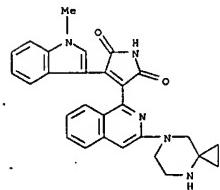
obstructive pulmonary disease, CNS diseases such as Alzheimer disease or amyotrophic lateral sclerosis, cancer, infectious diseases such as AIDS, septic shock or adult respiratory distress syndrome, ischemia/reperfusion injury e.g. myocardial infarction, stroke, gut ischemia, renal failure or hemorrhage shock, or traumatic shock, e.g. traumatic brain injury, were prepared. The compds. I are also useful in the treatment and/or prevention

of T-cell mediated acute or chronic inflammatory diseases or disorders of autoimmune diseases e.g. rheumatoid arthritis, osteoarthritis, systemic lupus erythematosus, Hashimoto's thyroiditis, multiple sclerosis, myasthenia gravis, diabetes type I or II and the disorders associated therewith, e.g. angiopathy, diabetic proliferative retinopathy, diabetic macular edema, nephropathy, neuropathy and dawn phenomenon, respiratory disease, such as asthma or inflammatory lung injury, inflammatory liver injury, inflammatory glomerular injury, cutaneous manifestations of immunol.-mediated disorders or illnesses, inflammatory and hyperproliferative skin diseases (such as psoriasis, atopic dermatitis, allergic contact dermatitis, irritant contact dermatitis and further eczematous dermatitis, seborrheic dermatitis), inflammatory eye diseases, e.g., Sjögren's syndrome, keratoconjunctivitis or uveitis, inflammatory bowel disease, Crohn's disease or ulcerative colitis. Thus, reacting 2-(2-chloro-3-methyl-5-(4-methylpiperazin-1-yl)phenylacetamide (preparation given) with 3-indoleglyoxalate in the presence of tert-BuOK in THF

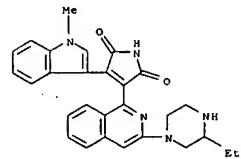
afforded II. The compds. I showed IC50 of  $\leq 1 \mu\text{M}$  against different isoforms of PKC. Pharmaceutical composition comprising the compound I

LS ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

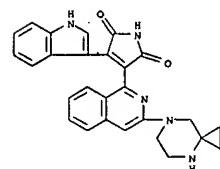
4-(1-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



RN 611234-94-7 CAPLUS  
CN 1H-Pyrole-2,5-dione, 3-[3-(3-ethyl-1-piperazinyl)-1-isoquinoliny]-4-(1-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



RN 611234-95-8 CAPLUS  
CN 1H-Pyrole-2,5-dione,  
3-[3-(1H,7-diazaspiro[2.5]oct-7-yl)-1-isoquinoliny]-4-(1H-indol-3-yl)- (9CI) (CA INDEX NAME)



RN 611234-96-9 CAPLUS  
CN 1H-Pyrole-2,5-dione,  
3-[3-(3-ethyl-1-piperazinyl)-1-isoquinoliny]-4-(1H-

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LS ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

is claimed.

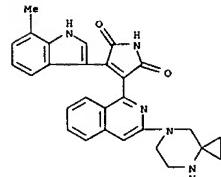
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611235-01-9P 611235-02-0P 611235-03-1P  
611235-04-2P 611235-05-3P 611235-06-4P  
611235-07-5P 611235-08-6P 611235-09-7P  
611235-10-0P 611235-11-1P 611235-12-2P  
611235-13-3P 611235-14-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of indolylmaleimides for treating diseases or disorders mediated by T lymphocytes and/or PKC)  
RN 611234-92-5 CAPLUS  
CN 1H-Pyrole-2,5-dione,  
3-[3-(4,7-diazaspiro[2.5]oct-7-yl)-1-isoquinoliny]-4-(7-methyl-1H-indol-3-yl)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 611234-91-4  
CMF C28 H25 N5 O2



CM 2

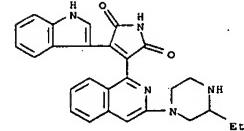
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CMF C2 H4 O2



RN 611234-93-6 CAPLUS  
CN 1H-Pyrole-2,5-dione,  
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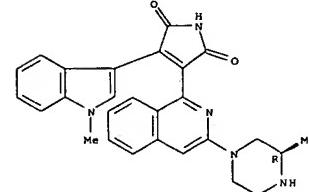
LS ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

indol-3-yl)- (9CI) (CA INDEX NAME)



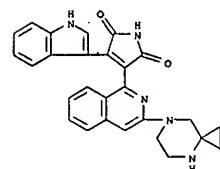
RN 611234-97-0 CAPLUS  
CN 1H-Pyrole-2,5-dione, 3-(1-methyl-1H-indol-3-yl)-4-[3-((3R)-3-methyl-1-piperazinyl)-1-isoquinoliny]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



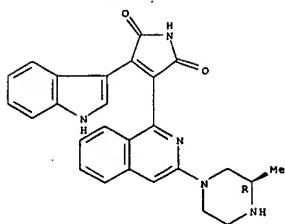
RN 611234-98-1 CAPLUS  
CN 1H-Pyrole-2,5-dione,  
3-(1H-indol-3-yl)-4-[3-((3R)-3-methyl-1-piperazinyl)-1-isoquinoliny]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



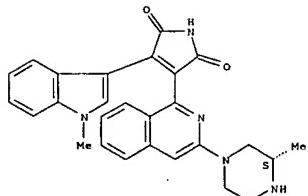
RN 611234-96-9 CAPLUS  
CN 1H-Pyrole-2,5-dione,  
3-[3-(3-ethyl-1-piperazinyl)-1-isoquinoliny]-4-(1H-

10542175a.trn



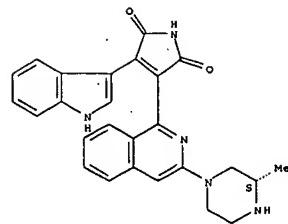
RN 611234-99-2 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1-methyl-1H-indol-3-yl)-4-[3-[(3S)-3-methyl-1-piperazinyl]-1-isoquinoliny]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



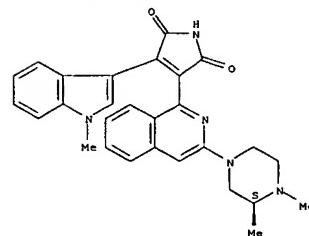
RN 611235-00-8 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[3-[(3S)-3-methyl-1-piperazinyl]-1-isoquinoliny]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



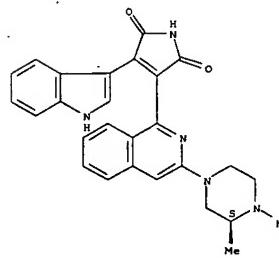
RN 611235-01-9 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-[3-[(3S)-3,4-dimethyl-1-piperazinyl]-1-isoquinoliny]-4-(1-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

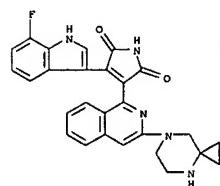


RN 611235-02-0 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-[3-[(3S)-3,4-dimethyl-1-piperazinyl]-1-isoquinoliny]-4-(1H-indol-3-yl)- (9CI) (CA INDEX NAME)

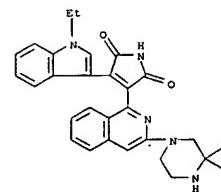
Absolute stereochemistry.



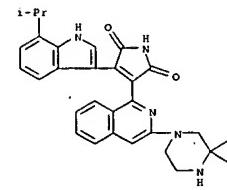
RN 611235-03-1 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-[3-(4,7-diazaspiro(2.5)oct-7-yl)-1-isoquinoliny]-4-(7-fluoro-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



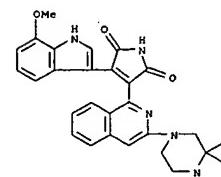
RN 611235-04-2 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-[3-(4,7-diazaspiro(2.5)oct-7-yl)-1-isoquinoliny]-4-(1-ethyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



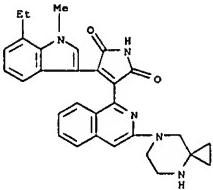
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 CN 1H-Pyrrole-2,5-dione, 3-[3-(4,7-diazaspiro(2.5)oct-7-yl)-1-isoquinoliny]-4-(7-(1-methylethyl)-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



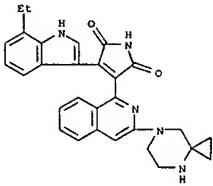
RN 611235-06-4 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-[3-(4,7-diazaspiro(2.5)oct-7-yl)-1-isoquinoliny]-4-(7-methoxy-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
RN 611235-07-5 CAPLUS  
CN 1H-Pyrrole-2,5-dione,  
3-[3-(4,7-diazaspiro[2.5]oct-7-yl)-1-isouquinolinyl]-  
4-(7-ethyl-1-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

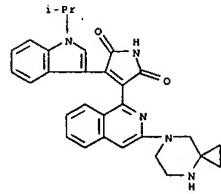


RN 611235-08-6 CAPLUS  
CN 1H-Pyrrole-2,5-dione,  
3-[3-(4,7-diazaspiro[2.5]oct-7-yl)-1-isouquinolinyl]-  
4-(7-ethyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

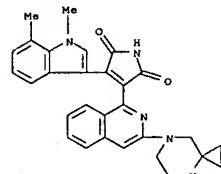


RN 611235-09-7 CAPLUS  
CN 1H-Pyrrole-2,5-dione,  
3-[3-(4,7-diazaspiro[2.5]oct-7-yl)-1-isouquinolinyl]-  
4-(1-(1-methylethyl)-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

L5 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

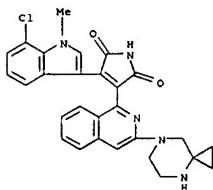


RN 611235-10-0 CAPLUS  
CN 1H-Pyrrole-2,5-dione,  
3-[3-(4,7-diazaspiro[2.5]oct-7-yl)-1-isouquinolinyl]-  
4-(1,7-dimethyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



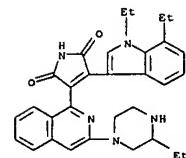
RN 611235-11-1 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-(7-chloro-1-methyl-1H-indol-3-yl)-4-[3-(4,7-diazaspiro[2.5]oct-7-yl)-1-isouquinolinyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

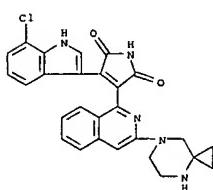


RN 611235-12-2 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-(7-chloro-1H-indol-3-yl)-4-[3-(4,7-diazaspiro[2.5]oct-7-yl)-1-isouquinolinyl]- (9CI) (CA INDEX NAME)

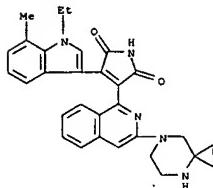
L5 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
RN 611235-14-4 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-(1,7-diethyl-1H-indol-3-yl)-4-[3-(3-ethyl-1-piperazinyl)-1-isouquinolinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



RN 611235-13-3 CAPLUS  
CN 1H-Pyrrole-2,5-dione,  
3-[3-(4,7-diazaspiro[2.5]oct-7-yl)-1-isouquinolinyl]-  
4-(1-ethyl-7-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2003:737761 CAPLUS  
 DOCUMENT NUMBER: 139:261331  
 TITLE: Preparation of 3-(tricyclic fused heteroaryl) 4-heteroaryl substituted 2,5-dioxopyrroles as GSK-3 $\beta$  kinase inhibitors  
 INVENTOR(S): Clayton, Joshua Ryan; Diefenbacher, Clive Gideon; Engler, Thomas Albert; Furness, Kelly Wayne; Henry, James Robert; Malhotra, Sushant; Marquart, Angela Lynn; McLean, Johnathan Alexander; Mendel, David; Burkholder, Timothy Paul; Li, Yihong; Reel, Jon Kevin Eli Lilly and Company, USA; et al.  
 PATENT ASSIGNEE(S): Eli Lilly and Company, USA; et al.  
 SOURCE: PCT Int. Appl., 161 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

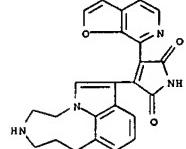
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003076442	A1	20030918	WO 2003-US55050	20030304
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MS, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG			
CA 2477967	AA	20030918	CA 2003-2477967	20030304
AU 2003215325	A1	20030922	AU 2003-215325	20030304
EP 1483265	A1	20041028	EP 2003-711146	20030304
EP 1483265	B1	20061122		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003008243	A	20050111	BR 2003-8243	20030304
US 2005090483	A1	20050428	US 2003-506459	20030304
CN 1639165	A	20050713	CN 2003-805292	20030304
JP 2005526072	T2	20050902	JP 2003-574659	20030304
PRIORITY APPLN. INFO.:			US 2002-362245P	P 20020305
			WO 2003-US55050	W 20030304

OTHER SOURCE(S): MAPPAT 139:261331  
 GI.

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. [x]: R1 = H, halo, alkyl; m = 0-4; R = -(CH2)n, CHMe, CMe2, CH2Q1CH2, CHOCHOHCH2; Q1 = CHOH, CO; n = 0-4; WXY = -(CH2)3,

L5 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



●2 HCl

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

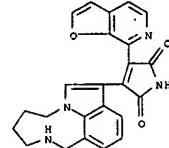
L5 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 (un)substituted CH2NHCH2, NHCOCH2, etc.; Ar = benzofuryl, benzothienyl, indolyl, etc.), useful for treating GSK-3 $\beta$  mediated diseases such as diabetes and Alzheimer's disease, were prep'd. Thus, treating 3-(6,7-dihydro-6H-[1,4]diazepino[6,7,1-hj]indol-1-yl)-4-(imidazo[1,2-a]pyridin-3-yl)pyrrole-2,5-dione dihydrochloride (prepn. given) with di-Ph

cyanocarbonimidate in the presence of Et3N in iso-PrOH followed by addn. of morpholine afforded II. The exemplified compds. I exhibit IC50 of  $\leq 0.2 \mu\text{M}$  against GSK-2 $\beta$ . Pharmaceutical compn. comprising the compd. I was claimed.

IT 603268-92-4 CAPLUS  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 3-(tricyclic fused heteroaryl) 4-heteroaryl substituted 2,5-dioxopyrroles as GSK-3 $\beta$  kinase inhibitors)

RN 603268-92-4 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-furo[2,3-c]pyridin-7-yl-4-(1,2,3,4,5,6-hexahydypyrrolo[3,2,1-lm][1,6]benzodiazonin-9-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

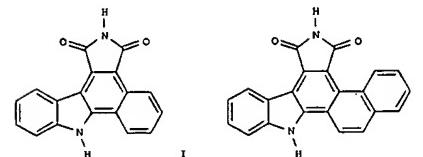


●2 HCl

RN 603268-97-9 CAPLUS  
 CN 1H-Pyrrole-2,5-diones, 3-furo[2,3-c]pyridin-7-yl-4-(4,5,6,7,8,9-hexahydypyrrolo[3,2,1-lm][1,6]benzodiazonin-1-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

L5 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

ACCESSION NUMBER: 2003:795114 CAPLUS  
 DOCUMENT NUMBER: 140:42054  
 TITLE: Aryl[al]pyrrolo[3,4-c]carbazoles as selective cyclin D1-CDK4 inhibitors  
 AUTHOR(S): Sanchez-Martinez, Concha; Shih, Chuan; Paul, Margaret M.; Zhu, Guoxin; Paal, Michael; Somoza, Carmen; Li, Tiechao; Kumrich, Christine A.; Winnroski, Leonard L.; Xun, Zhou; Brooks, Harold B.; Patel, Bharvin K.; Schulz, Richard M.; DeHahn, Tammy B.; Spencer, Charles D.; Watkins, Scott A.; Considine, Eileen; Dempsey, Jack A.; Ogg, Catherine A.; Campbell, Robert M.; Anderson, Bryan A.; Wagner, Jill DCR&T, Lilly Spain S.A., Madrid, 28108, Spain  
 CORPORATE SOURCE: Bioorganic & Medicinal Chemistry Letters (2003), 13(21), 3835-3839  
 SOURCE: CODEN: BMCL88; ISSN: 0960-894X  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 140:42054  
 GI



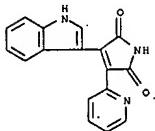
AB The synthesis of analogs of Arcyriaflavin A, in which one indole ring is replaced by an aryl or heteroaryl ring, is described. These series of aryl[al]pyrrolo[3,4-c]carbazoles, e.g., I, were evaluated as inhibitors of Cyclin D1-CDK4. A potent and selective D1-CDK4 inhibitor, II (D1-CDK4 IC50 = 45 nM), has been identified. The potency, selectivity profile against other kinases, and structure-activity relationship (SAR) trends of this class of compds. are discussed.

IT 635300-92-4  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of maleimides via heterocyclization of indolylglyoxylate with

arylacetamides followed by elimination in the preparation of arenopyrrolocarbazoles as cyclin D1-CDK4 inhibitors)

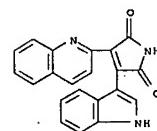
RN 635300-92-4 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2003:236058 CAPLUS  
DOCUMENT NUMBER: 139:127404  
TITLE: Synthesis of quinolinyl/isoquinolinyl[4]pyrrolo[3,4-c] carbazoles as cyclin.D1/CDK4 inhibitors  
AUTHOR(S): Zhu, Guoxin; Conner, Scott; Zhou, Xun; Shih, Chuan; Brooks, Harold B.; Considine, Eileen; Dempsey, Jack A.; Ogg, Cathy; Patel, Bharavin; Schultz, Richard M.; Spencer, Charles D.; Teicher, Beverly; Watkins, Scott A.  
CORPORATE SOURCE: A Division of Eli Lilly and Company, Lilly Research Laboratories, Lilly Corporate Center, Indianapolis, IN, 46285, USA  
SOURCE: Bioorganic & Medicinal Chemistry Letters (2003), 13(7), 1231-1235  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 139:127404  
AB A novel series of pyrrolo[3,4-c] carbazoles fused with a quinolinyl/isoquinolinyl moiety were synthesized and their D1/CDK4 inhibitory and antiproliferative activity were evaluated. Compound 14H-isoquinolinyl[6,5-a]pyrrolo[3,4-c]carbazole-7,9-dione was found to be  
a highly potent D1/CDK4 inhibitor with an IC<sub>50</sub> of 69 nM. One compd. also inhibited tumor cell growth, arrested tumor cells in G1 phase and inhibited pRb phosphorylation.  
IT 569337-96-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(synthesis of quinolinylisoquinolinylpyrrolocarbazoles as cyclin D1-CDK4 inhibitors)  
RN 569337-96-8 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-(2-quinolinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2002:368469 CAPLUS  
DOCUMENT NUMBER: 136:366017  
TITLE: Preparation of indolylmaleimide derivatives as protein kinase c inhibitors  
INVENTOR(S): Albert, Rainer; Cooke, Nigel Graham; Cottens, Sylvain;  
Schrhardt, Claus; Evenou, Jean-Pierre; Sedrani, Richard; Von Matt, Peter; Wagner, Juergen; Zenke, Gerhard; Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.  
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.  
SOURCE: PCT Int. Appl., 50 pp.  
CODEN: PIXDZ  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

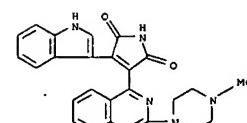
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002038561	A1	20020516	WO 2001-EPI2785	20011105
WO 2002038561	C1	20031218		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, ZW	R: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR			
CA 242813	AA	20020516	CA 2001-2428133	20011105
AU 2002021810	A5	20020521	AU 2002-21810	20011105
US 2003069424	A1	20030410	US 2001-7368	20011105
US 6645970	B2	20031111		
EP 1337527	A1	20030827	EP 2001-993604	20011105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001015193	A	20040203	BR 2001-15193	20011105
JP 2004513168	T2	20040430	JP 2002-541095	20011105
NZ 525656	A	20041224	NZ 2001-525656	20011105
NZ 535616	A	20060331	NZ 2001-535616	20011105
ZA 2003003426	A	20040422	ZA 2003-3426	20030505
NO 200302034	A	20030704	NO 2003-2034	20030506
US 2004053949	A1	20040318	US 2003-660442	20030911
AU 2005202387	A1	20050623	AU 2005-202387	20050601
PRIORITY APPLN. INFO.:			US 2000-246400P	P 20001107
			US 2001-283705P	P 20010413
			AU 2002-21810	A3 20011105
			NZ 2001-525656	A1 20011105
			US 2001-7368	A1 20011105
			WO 2001-EPI2785	W 20011105

OTHER SOURCE(S): MARPAT 136:366017  
GI

10542175a.trn

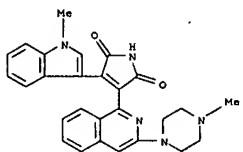
L5 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AB Title compds. I [Ra = H, alkyl; Rb = H, alkyl; R = (un)substituted Ph, naphthyl, quinazolinyl, pyrimidyl, etc.; ring A is optionally substituted] were prepared. Examples include over 180 compds. and assays for activity with several protein kinase C (PKC) isoforms. For instance, 1H,3H-quinazolin-2,4-dione was converted to 2,4-dichloroquinazoline (POCl<sub>3</sub>, Me<sub>2</sub>NPh, 110°C) and used to alkylate Et acetoacetate (THF, NaH, 0°C; ii. PhMe, reflux; iii. NH4OH, overnight) resulting in the formation of 2-(2-chloroquinazolin-4-yl)acetamide. This was dissolved in NMP and reacted with excess N-methylpiperazine to give 2-(2-(4-methylpiperazin-1-yl)quinazolin-4-yl)acetamide. Reaction of the acetamide with 3-indoleglyoxylic acid Me ester (THF, KOBu-t, 0°C → room temperature, overnight) provided II as an orange-red powder. II had IC<sub>50</sub> < 10 nM for PKC<sub>0</sub>. I are useful for preventing or treating disorders or diseases mediated by T lymphocytes and/or PKC.  
IT 425638-48-8P 425638-49-9P 425638-50-2P  
425638-51-3P 425638-52-4P 425638-53-5P  
425638-54-6P 425638-55-7P 425638-56-8P  
425638-57-9P 425638-58-0P 425638-59-1P  
425638-60-4P 425638-61-5P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (drug; preparation of indolylmaleimide derivs. as protein kinase c inhibitors)  
RN 425638-48-8 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[3-(4-methyl-1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)

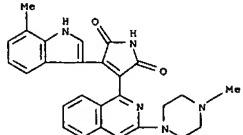


LS ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

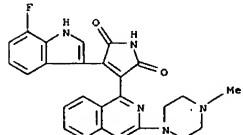
RN 425638-49-9 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1-methyl-1H-indol-3-yl)-4-[3-(4-methyl-1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)



RN 425638-50-2 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(7-methyl-1H-indol-3-yl)-4-[3-(4-methyl-1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)



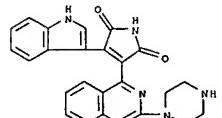
RN 425638-51-3 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(7-fluoro-1H-indol-3-yl)-4-[3-(4-methyl-1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)



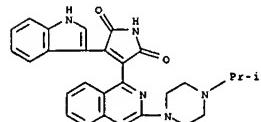
RN 425638-52-4 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(7-fluoro-1H-indol-3-yl)-4-[3-(1-piperazinyl)-1-

LS ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 425638-56-8 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[3-(1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)



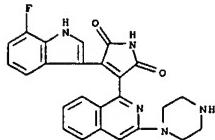
RN 425638-57-9 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[3-(4-(1-methylethyl)-1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)



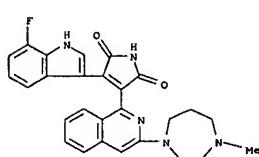
RN 425638-58-0 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(7-fluoro-1-methyl-1H-indol-3-yl)-4-[3-(4-methyl-1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)

LS ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

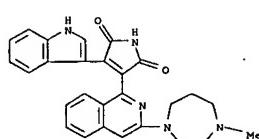
CN isoquinolinyl]- (9CI) (CA INDEX NAME)



RN 425638-53-5 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(7-fluoro-1H-indol-3-yl)-4-[3-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)



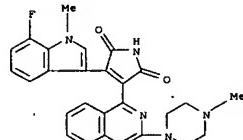
RN 425638-54-6 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(3-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-1-isoquinolinyl)-4-(1H-indol-3-yl)- (9CI) (CA INDEX NAME)



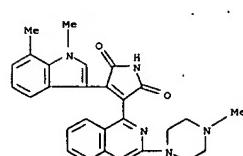
RN 425638-55-7 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[3-(3-methyl-1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)

LS ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

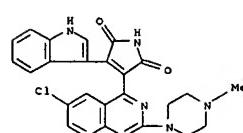
RN 425638-56-8 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-4-[3-(1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)



RN 425638-59-1 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-(1,7-dimethyl-1H-indol-3-yl)-4-[3-(4-methyl-1-piperazinyl)-1-isoquinolinyl]- (9CI) (CA INDEX NAME)

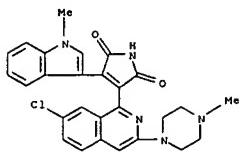


RN 425638-60-4 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-[7-chloro-3-(4-methyl-1-piperazinyl)-1-isoquinolinyl]-4-(1H-indol-3-yl)- (9CI) (CA INDEX NAME)

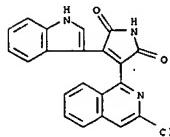


RN 425638-61-5 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 3-[7-chloro-3-(4-methyl-1-piperazinyl)-1-isoquinolinyl]-4-(1-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)

LS ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 425638-77-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(intermediate; preparation of indolylmaleimide derivs. as protein kinase C inhibitors)  
RN 425638-77-3 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-(3-chloro-1-isoquinolinyl)-4-(1H-indol-3-yl)-(9CI) (CA INDEX NAME)



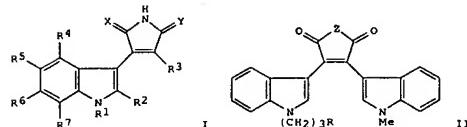
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LS ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1990:98378 CAPLUS  
DOCUMENT NUMBER: 112:98378  
TITLE: Preparation of 3-(3-indolyl)pyrrole-2,5-diones and analogs as protein kinase inhibitors  
INVENTOR(S): Davis, Peter David; Hill, Christopher Huw; Lawton, Geoffrey  
PATENT ASSIGNEE(S): Hoffmann-La Roche, F., und Co. A.-G., Switz.  
SOURCE: Eur. Pat. Appl., 38 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

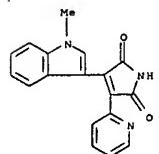
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 328026	A1	19890816	EP 1989-102025	19890206
EP 328026	B1	19930428		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 8900865	A	19891025	ZA 1989-865	19890203
CZ 280738	B6	19960417	CZ 1989-752	19890203
SK 278989	B6	19980506	SK 1989-752	19890203
AU 8929658	A1	19890810	AU 1989-29658	19890206
AU 623630	B2	19920521		
HU 49348	A2	19890928	HU 1989-554	19890206
HU 201054	B	19900928		
US 5057614	A	19911015	US 1989-307104	19890206
AT 88704	E	19930515	AT 1989-102025	19890206
CA 1320194	A1	19930713	CA 1989-590178	19890206
ES 2054090	T3	19940816	ES 1989-102025	19890206
DK 8900558	A	19890811	DK 1989-558	19890207
DK 171891	B1	19970804		
JP 01233281	A2	19890919	JP 1989-27741	19890208
JP 07030071	B4	19950405		
NO 8900568	A	19890811	NO 1989-568	19890209
NO 172540	B	19930426		
NO 172540	C	19930804		
SU 1799382	A3	19930228	SU 1989-4613492	19890209
FI 8900652	A	19890811	FI 1989-652	19890210
FI 96861	B	19960531		
FI 96861	C	19960910		
US 36736	E	20000613	US 1998-14198	19980127
PRIORITY APPLN. INFO.:			GB 1988-3048	A 19880210
			GB 1988-7565	A 19881125
			EP 1989-102025	A 19890206
			US 1989-307104	A5 19890206

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LS ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB The title compds. (I; R1, R2 = H, alkyl, aryl, etc.; R3 = aryl, heteroaryl; R4-R7 = H, halo, alkyl, alkoxy, etc.; 1 of X, Y = O and the other = O, S, H and OH, H and H) were prepared. Thus, 1-(3-bromopropyl)indole (preparation given) was stirred 2 h with (COCl)<sub>2</sub> in CH<sub>2</sub>Cl<sub>2</sub> and the product stirred 3 h with 1-methyl-3-indolylacetic acid in CH<sub>2</sub>Cl<sub>2</sub> containing (Me<sub>2</sub>CH)<sub>2</sub>NET to give bis(indolyl)furanone II (R = Br, Z = O) which was converted in 3 steps to II (R = NH<sub>2</sub>, Z = NH). The latter was stirred 16 h with 1,1'-thiocarbonyldiimidazole in THF to give II (R = NCS, Z = NH) which had IC<sub>50</sub> of 0.008 μM for inhibition of protein kinase C in vitro.  
IT 125314-62-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as protein kinase inhibitor)  
RN 125314-62-7 CAPLUS  
CN 1H-Pyrrole-2,5-dione, 3-(1-methyl-1H-indol-3-yl)-4-(2-pyridinyl)-(9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	48.36	215.51
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.75	-6.75

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 09:05:08 ON 05 DEC 2006